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Liquibasin Product Number 361626

LIQUIBASIN™ SPECIFICATIONS		
Capacity	Dimensions	Product Number
185 gal (700 l)	52" x 52" x 20" 1321 mm x 1321 mm x 508 mm	361613
448 gal (1695 I)	54" x 120" x 20" 1372 mm x 3048 mm x 508 mm	361711
748 gal (2831 I)	90" x 120" x 20" 2286 mm x 3048 mm x 508 mm	361626

Custom sizes are available to meet your specific needs

Figure D-11-7. Example of Waste Tote Secondary Containment Pallet

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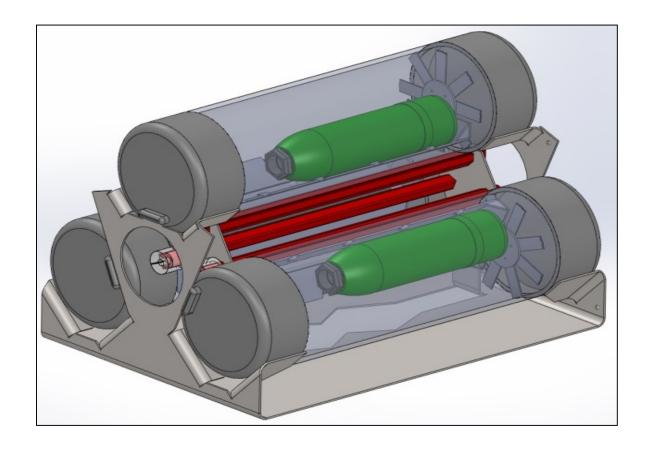


Figure D-11-8. Universal Munition Storage Container Holder 3-Pack Configuration

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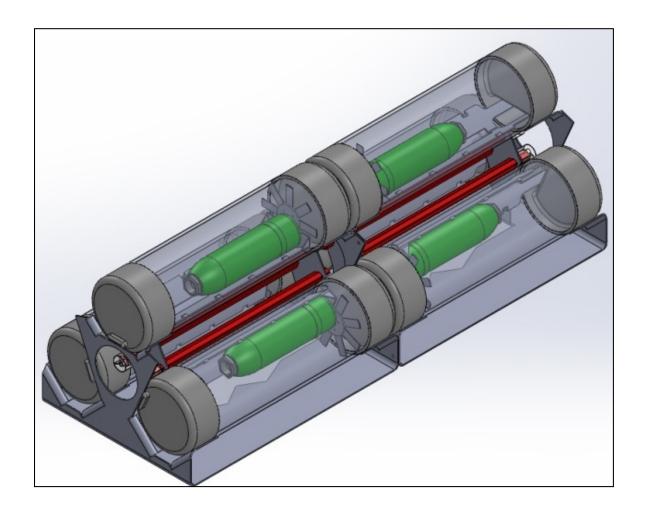


Figure D-11-9. Universal Munition Storage Container Holder 6-Pack Configuration

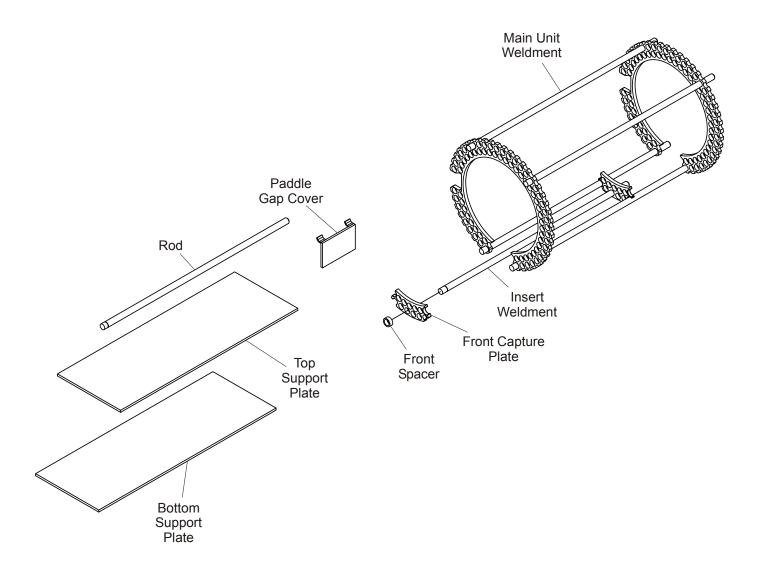


Figure D-11-10. AFSS

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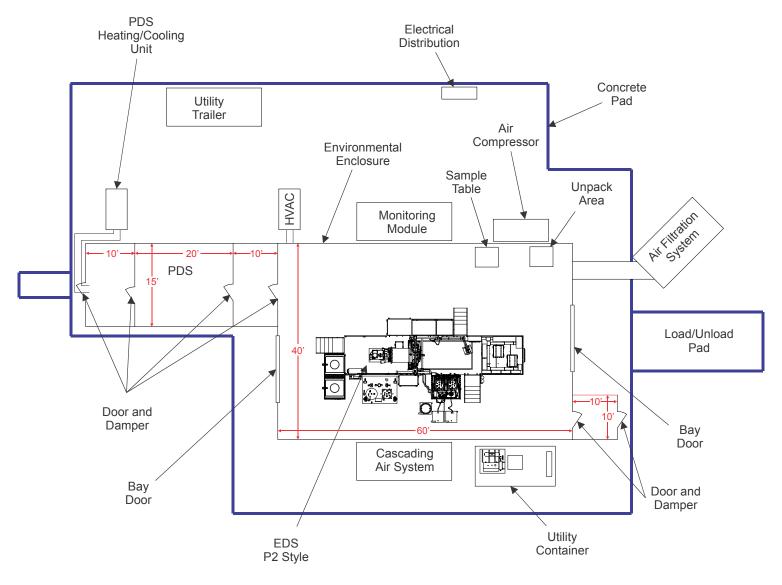


Figure D-11-11. Example of an EDS Within an Environmental Enclosure

Table D-11-1. EDS P2R and P2A Physical Characteristics Summary

Component	P2R	P2A	
Trailer/Skid Subsystem	Trailer/Skid Subsystem		
Gross Weight of Trailer/Skid	Approximately 57,300 pounds	Approximately 29,000 pounds	
Dimensions of Trailer/Skid	39.5 feet long x 8.5 feet perimeter frame dual-axle, single-drop trailer with a fold-up wing	20 feet long x 8 feet wide frame	
Dimensions of Trailer/Skid Secondary Containment Pan	154.75 inches long x 69 inches wide by 2.34-5.00 inches deep (approximately 166 gallons)	Same as P2R	
Working Surface of the Trailer/Skid	Approximately 42 inches above the ground	Approximately 16 inches above the ground	
Leveling Jacks	Four leveling jacks	N/A; Fixed support feet	
Access to Trailer/Skid	Four fold-down steps on each side midway to the front and at the front corners of the trailers	Platform with steps attach to front of skid	
Safety Railings	4.5-foot high safety railing surrounds the trailer	4.5-foot high safety railing surrounds working platform and portion of skid	
Additional Feature	Four fold-down platform extensions for additional work area and accessibility	Three detachable platforms for additional work area and accessibility	
Containment Vessel Subsystem (Measurements are approximate.)			
Outside Length	63 inches	Same as P2R	
Outside Diameter	35 inches		
Inside Length	56 inches		
Inside Diameter	29 inches		
Side Wall Thickness	3.655 inches		
Rear Wall Thickness	6.5 inches		
Assembly Weight	18,000 pounds		
Design Volume	22 cubic feet or 160 gallons		

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Table D-11-1. EDS P2R and P2A Physical Characteristics Summary (Continued)

Component	P2R	P2A
Containment Vessel Subsystem (continued)		
Working Volume	112 gallons	Same as P2R, except there are no paddles
Maximum Explosive Rating ^a	9 pounds TNT equivalent	paddies
Munition Size Capacity		
Maximum Diameter	10 inches	
Maximum Length	40 inches	
Chemical Fill Capacity	50 pounds or less	
Maximum Munitions Load	Supports 1 to 6 munitions per detonation	
Protection Plates	Stainless steel blast protection plates	
Access Door to the Interior of the Containment Vessel	A 9-inch thick door provides access to the interior of the Containment Vessel	
Clamp Hanger Subsystem	Two sets of clamp hangers with proximity sensors, two drive-pin assemblies and a lead screw	N/A
Clamp Closure Subsystem	Two Grayloc® clamp halves attached to four threaded steel rods with hydraulic nuts	Three-piece Grayloe® clamp, with support plate and pneumatic drive screw
Lift Assist Subsystem	Lift Assist: Comprised of articulated arm jib crane with a computer controlled electric winch	N/A
	Winch Dimensions: Approximately 20.5 inches wide x 9.5 inches high x 21 inches deep	
	Winch Lifting Capacity: 500 pounds	
	Power Requirement: 220 VAC, Max Current Draw is 15 amps	

Table D-11-1. EDS P2R and P2A Physical Characteristics Summary (Continued)

Component	P2R	P2A
Lift Assist Subsystem (Continued)	Approximate Weight: 133 pounds Articulated Arm Jib Crane Dimensions: Approximately 7 feet long boom (fully extended) and 2 feet high above the clamp hanger structure Construction: Mild steel painted with epoxy paint Lifting Capacity: 500 pounds	N/A
Rotary Agitation Subsystem	Rotates 360° at 1 rpm for 15 rotations and then reverses for the same time and revolutions 3-hp, 480-volt, 3-phase motor	Same as P2R
Reagent Supply Subsystem		
Supply Tanks	Two supply tanks with heaters; one tank holds water while the other tank holds reagent	Same as P2R
Pumps	Two air-driven pumps	Two air-driven pumps
Dimensions of Secondary Pan	72.34 inches long x 58.69 inches wide x 5.821 inches deep (approximately 107 gallons)	N/A
Waste Transfer Subsystem	Consists of Intermediate Tank and two liquid waste containers Each waste container is provided with secondary spill containment.	Same as P2R
Electrical Subsystem	Two 480-volt distribution panels and two 120-volt distribution panels for the trailers and their subsystem 750 kW, 3-phase, 277/480 volt diesel generator for backup power	Same as P2R
Explosive Opening Subsystem	Two separate firing systems capable of being positioned 50 feet from the trailer. Control module can be moved up to 300 feet from the firing system panel for remote operation.	Same as P2R

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Table D-11-1. EDS P2R and P2A Physical Characteristics Summary (Continued)

Component	P2R	P2A
Gas Supply and Leak Detection Subsystem	Mounted on trailer	Separate cart
Dimensions of Debris Pan	Approximately 52 inches long x 30 inches wide x 11.5 inches deep (approximately 50 gallons)	Same as P2R

Reference: Table compiled from information contained in the Project Manager for Non-Stockpile Chemical Materiel *Operations and Maintenance Manual for Explosive Destruction System Phase 2 Series*, current revision and *System Hazard Analysis for the Phase 2 Pilot Explosive Destruction System*, January 2012.

^a Total net explosive weight including donor charges

8 a Total net explosive 9 10 amp = ampere

gpm = gallons per minute

12 hp = horsepower 13 N/A = not applicable 14 P2A = Phase 2 Unit A

 $\begin{array}{ccc}
15 & P2R & = & Phase 2 Unit R \\
\end{array}$

16 rpm = revolutions per minute

17 TNT = trinitrotoluene

18 VAC = volts alternating current

Table D-11-2. AFSS Characteristics Summary

Component/Information	Characteristics
Rods	1.25 inches diameter x 51.0 inches long; cold drawn steel
Support Plates	.1196 inches thick x 19.5 inches or 17.5 inches wide x 44 inches long; mild steel
Paddle Gap Cover	.5 inches thick x 4 inches tall x 10 inches long; hot roll steel
Front Spacer	1.88 inches outside diameter x 1.35 inches inside diameter x 0.775 inches long; cold drawn steel
Front Capture Plate	.75 inches thick x 5.0 inches high x 10.0 inches long; hot roll steel
Insert Weldment	.75 inches thick x 5.0 inches high x 10.0 inches long with 1.25-inch diameter rods
Main Unit Weldment	29 inches outside diameter x 23 inches inside diameter x 51.0 inches long
AFSS Weight	1,660 lbs
Inside Diameter	21.13 inches with rods in place

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Note:

Advanced Fragment Suppression System AFSS

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